



# Petronet LNG Limited

Survey No. 347, Puthuvypu P.O.

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CIN L74899DL1998PLC093073

PAN: AAACP8148D. GST: 32AAACP8148D1ZP

PLL/KOCHI/MoEF&CC/2022-23/01

31<sup>st</sup> May 2022

## Additional Principal Chief Conservator of Forests (C)

Ministry of Environment, Forest and Climate Change,  
Regional Office (SZ),  
Kendriya Sadan, 4<sup>th</sup> Floor, E&F Wings, 17<sup>th</sup> Main Road,  
Koramangala II Block,  
Bangalore – 560034.

**Sub: Compliance report to Environment Clearance accorded to the LNG Terminal at Puthuvypu, Kochi.**

**Ref: Environment Clearance No. J-16011/26/2001-IA-III vide your letters dated 2<sup>nd</sup> June 2003.**

Sir,

The Six-monthly compliance report for the above clearance for the period of October 2021 to March 2022 is attached.

Thanking You,

With Regards

*Y Reddy*  
31.5.22



**Yogananda Reddy**

Chief General Manager & Vice President (Plant Head)

**CC:**

1) The Chief Environmental Engineer,  
Kerala State Pollution Control Board,  
Gandhinagar, Kochi – 682 020.



### Registered & Corporate Office:

World Trade Centre, First Floor, Babar Road, Barakhamba Lane,  
New Delhi - 110 001 (INDIA)

Tel: +91-11-23411411 / 23472525 Fax: +91-11-23472550

### Dahej LNG Terminal:

GIDC Industrial Estate, Plot No. 7/A, Dahej Taluka: Vagra, Dist.  
Bharuch - 392130 (Gujarat)

Tel: +91-2641-257249 Fax: +91-2641-257252

Compliance report of EC&CRZ Clearance No. J-16011/26/2001-IA-III dated 02<sup>nd</sup> JUNE 2003 for the Construction of LNG Import Terminal at Puthuvypeen Island, Kochi, Kerala by M/s Petronet LNG Ltd.

Period: October 2021 to March 2022

Sl_No	Condition Type	Condition Description	Compliance Status
1	Specific	All the conditions stipulated by the Science Technology and Environment Department (STED), Government of Kerala vide their Letter No. 4215/B1/2000/STED, dated 9 <sup>th</sup> February-2001 should be effectively implemented.	<ul style="list-style-type: none"> <li>• Conditions mentioned in the Letter No. 4215/B1/2000/STED, dated 09<sup>th</sup> February-2001 does not specify any conditions for compliance.</li> <li>• All conditions mentioned in the Letter No. 1143/A2/2005/STED dated 14<sup>th</sup> October-2005 from Kerala coastal Zone Management Authority are complied with. Point wise compliance status is given as <b>Annexure#1</b>.</li> </ul>
2	Specific	All the conditions stipulated by Kerala Pollution Control board in their NOC No: PCB/NOC/EK/117/98 dated 17.09.99 should be effectively implemented.	Conditions mentioned by KSPCB in the CTE No. PCB/NOC/EK/117/98 dated 17.09.99 and PLL compliances remarks are enclosed as <b>Annexure#2</b> .
3	Specific	No change in scope of work shall be made without prior approval of this ministry.	Any change in scope would be carried out only with the prior approval of the Ministry.
4	Specific	The laying and commissioning of the pipelines shall be in accordance with the established procedures, practices and rules. LNG facilities shall be designed, constructed and operated as per existing international standards. The pipelines shall be provided with in-built gas leakage detection and warning system. Adequate measures for monitoring pressures in excess of those for which the pipeline is designed shall be ensured to prevent leakage of gas.	<ul style="list-style-type: none"> <li>• The terminal construction complies with all existing international codes and best practices. Sufficient safety measures and warning systems are built into the system for detection of gas leakage, overpressure and other deviations in operating parameters. Details regarding the same have already been submitted with six monthly compliance report dated 30<sup>th</sup>September-2013.</li> <li>• Standards such as OISD-194, EN: 1473, NFPA 59A, PNGRB T4S and others international standards &amp; guidelines were followed during the Terminal construction, operation &amp; maintenance.</li> </ul>

5	Specific	No groundwater shall be tapped for the project.	PLL did not tap groundwater during construction stage and will not during operation phase. Water requirement during operation of the terminal will be met from the condensed water from air heater & by purchasing. At present the water requirement is met by procuring the water from vendors due to running of terminal at low output.
6	Specific	Specific arrangement for rainwater harvesting should be made in the project design and the rainwater so harvested should be optimally utilized.	Rainwater collection system is in place for LNG storage tanks and the water collected is being used in the terminal.
7	Specific	Mangrove afforestation will be promoted in consultation with the expert agencies and the local NGOs in the area. A detailed plan shall be worked out in this regard and submitted to this Ministry within 3 months.	A Detailed plan for Mangrove afforestation has already been submitted with six monthly compliance report dated 30 <sup>th</sup> September-2013. Petronet LNG Limited had spent Rs.60.00 lakh for the Mangrove Afforestation Project which is entitled as "Project for Mangrove afforestation in Ernakulam district". All the details with regard to this project have already been submitted at MoEF&CC along with earlier six-monthly compliance reports. Latest progress report was submitted along with the compliance report dated March – 2020.
8	Specific	The budget allocated for environment safeguard measures shall not be diverted for any other purpose.	Budget allocated for environment safeguard will not be diverted for other purposes. Environment expenses for FY 2021-22 is enclosed here as <b>#Annexure 03</b> .
9	Specific	The comprehensive Environmental Impact Assessment report shall be completed early, and the final report submitted to this Ministry within one year from the date of this clearance letter. Based on the comprehensive EIA report, additional environmental safeguards, as required, shall be implemented by the proponents.	Comprehensive EIA for 2.5 MMTPA Terminal capacity was submitted at MoEF&CC on 16 <sup>th</sup> February-2001. EIA, QRA and Site emergency response plan (ERDMP) were submitted at MoEF&CC on 22 <sup>nd</sup> September-2011.

10	Specific	Based on the risk analysis, Disaster Management Plan should be prepared and submitted to this Ministry within 6 months. Necessary safety norms for the movement of LNG ships are to be laid down by Cochin Port Trust Authorities within their jurisdiction and communicated to the project proponent for strict compliance with a view to prevent collision, grounding or ramming or any other major accidents	<ul style="list-style-type: none"> <li>• EIA with QRA and site emergency response plan (ERDMP) submitted to MoEF&amp;CC vide letter dated 22<sup>nd</sup> September-2011 w.r.t. EAC recommendations.</li> <li>• Emergency Response and Disaster Management Plan (ERDMP) of Petronet LNG Ltd, Kochi terminal was submitted along with the six-monthly compliance report dated 05<sup>th</sup> April-2013. Safety norms for ship movements are included in this Emergency response plan.</li> </ul>
11	Specific	Project proponent shall take all safety measures and take into account the dynamics of the marine / Coastal area before constructing the break waters. The recommendations made by Central Water and Power Research Station (CWPRS) shall be duly implemented. The dredged materials shall be disposed of as per the recommendations by CWPRS.	<ul style="list-style-type: none"> <li>• The location and size of the basin has been arrived at after detailed model studies conducted by Central Water and Power Research Station (CWPRS) and further revalidated by HR Wallingford. Dredging is carried out by PLL &amp; Cochin Port Trust and the dredged material is being disposed of at the locations identified by Cochin Port trust.</li> <li>• The Cutter suction Dredger's dredging material is dumped at the Cochin Port Trust allocated area. The Trailer Suction hopper Dredger's dredging material is being dumped at the designated dumping site of Cochin Port at outer sea, about 15.6 km from the shore.</li> </ul>
12	Specific	No activities will be undertaken in the Mangrove area or in the buffer zone of the mangrove. The route of the pipeline and other activities shall have minimum of 50m from the nearby mangroves and forest land if any in the CRZ area. Expansion of existing service road in the Coastal Regulation Zone-I shall not be carried out.	PLL plot is not in the mangrove area and is at about 100m from the buffer zone. All activities and pipelines are confined within this plot. The existing service road belongs to Panchayat. PLL will not carry out expansion of existing service road into Coastal Regulation Zone -I (I).
13	Specific	Design and alignment of the pumping platform/jetty and other structures should be chosen in such a way that it causes minimum resistance to the flow of tidal waters.	Jetty structure was designed and constructed after due consideration of this aspect. Jetty foundation is built on piles structure to cause minimum disturbance to tidal waters.

14	Specific	The pipelines related to effluent discharge, sea water intake and pumping of LNG should be laid on sea floor after trenching. Trenching operations should be restricted to minimum area to minimize damage to benthic fauna.	PLL has already submitted to MoEF&CC the change in the regasification process of the terminal and Sea water intake is not required in Shell and Tube Vaporizers (STVs). It is to be noted that PLL will not use sea water in any manner nor will discharge any effluent into the sea during operation of the terminal. Pipelines for LNG pumping from jetty to tanks are laid above ground along the jetty trestle.
15	Specific	Disposal facilities should be completed prior to the commissioning of project activities. As per the thermal Plume Studies by NIO, Goa, the return water should be discharged at a location having water depth of about 3 m. Post monitoring should be carried out at definite intervals in order to ensure mid-course corrections, if any, for maintenance of environmental quality.	PLL has already submitted to MoEF&CC the change of the regasification process of the terminal and Sea water intake is not required in Shell and Tube Vaporizers (STVs). PLL will not use sea water in any manner nor will discharge any effluent into the sea during operation of the terminal. As PLL is not using sea water in any manner this condition is not applicable.
16	Specific	Fish eggs, larvae and small fish as well as plant and animal plankton pass through the water intake screen and at times through the trash bars. Accordingly, the water intake for regasification purpose is to be provided with a velocity cap, trash bars, and low intake velocity be maintained to minimize the entry of debris and fish.	PLL has already submitted to MoEF & CC the change of the regasification process of the terminal and Sea water intake is not required in Shell and Tube Vaporizers (STVs). As PLL is not using sea water in any manner this condition remains not applicable.
17	Specific	The Bathymetric survey of the dredged material disposal site should be carried out regularly and it should be ensured that there is no navigational hazard due to reduction of navigational depth as a result of project activities. Location of dumping site should be informed to all concerned.	The Bathymetric survey is being carried out by Cochin Port Trust. The dredged material disposal site is a common dumping site at outer sea, 15.6 km away from shore and it is managed by Cochin Port Trust.

18	Specific	Regular surveys shall be conducted to identify changes in the channel morphology so that navigational hazards are minimal.	The channel is belonging to Cochin Port and its Morphology survey has been carrying out by Cochin Port Trust.
19	Specific	Marine environment shall be periodically monitored to assess changes, if any, in the ecology and suitable remedial measures, if any required, shall be taken.	<ul style="list-style-type: none"> <li>• PLL is conducting marine water sampling and analysis on half yearly basis by a KSPCB approved third party agency and the report suggests no adverse changes in the marine environment.</li> <li>• Latest copy of the marine water sampling report dated December 2021 is enclosed here as <b>Annexure#4</b>.</li> </ul>
20	General	Construction of the proposed structure should be undertaken meticulously conforming to the existing Central/local rules and regulations including Coastal Regulation Zone Notification, 1991 and its amendments. All the construction designs/drawings relating to the proposed construction activities must have approvals of the concerned State Government departments/Agencies.	The construction drawings have been approved by the concerned State Government Department/Agencies like Department of Factories and Boilers, Fire and rescue Services, PESO, KSPCB etc. Copy of the approvals of Factories and Boiler, Fire rescue services has already been submitted with six monthly compliance report dated 05 <sup>th</sup> April-2013. PLL had obtained recommendations from KCZMA for obtaining Environment clearance from MoEF&CC and the same had been submitted along with the prior consent application.
21	General	The proponent shall ensure that as a result of the proposed constructions, ingress of the saline water into the groundwater does not take place. Piezometers shall be installed for regular monitoring for this purpose at appropriate locations on the project site.	<p>Piezometers were installed at two locations during construction period for monitoring ground water quality and ensuring no ingress of saline water into the ground water. Sampling &amp; analysis of the water drawn from Piezometer is being carried out by a KSPCB approved third party agency on half yearly basis.</p> <p>Two wells for ground water sampling are installed and being maintained inside PLL at present. Quality of ground water is being analysed with the help of a KSPCB approved third party agency on half yearly basis. The latest Ground water analysis report of the month of December 2021 is enclosed as <b>Annexure#5</b>.</p>

22	General	<p>Handling, manufacturing, storage and transportation of all hazardous chemicals should be carried out in accordance with MSIHC Rules, 1989 and subsequent amendments, All approvals from State and Central nodal agencies including OISD, Chief Controller of Explosives, Chief Inspectorate of Factories must be obtained. A comprehensive contingency plan in collaboration with the concerned authorities must be formulated before commissioning of the project to meet any eventuality in case of an accident</p>	<p>PLL has been notified as MAH category industry by Kerala Factories &amp; Boilers department as per requirement of MSIHC rules 1989. Permit to construct and plan approvals were obtained from Director of Factories and Boilers. We have already submitted the details regarding the same with six monthly compliance report, dated 05<sup>th</sup> April-2013. We have received the renewed factory license which valid till 31<sup>st</sup> December-2022; a copy of the same has been submitted along with the compliance report dated 30<sup>th</sup> November 2021. We have received final clearance from Chief Controller of Explosive for commissioning of Jetty, LNG unloading line, LNG tanks, and Regasification facilities with letters dated 04<sup>th</sup> February-2013. We have already submitted the same with six monthly compliance reports, dated 05<sup>th</sup> April-2013. A comprehensive Emergency response and Disaster Management Plan (ERDMP) has prepared by Petronet to meet any eventualities in case of an accident. This plan was submitted to District collector office vide letter no. PLL/KOCHI/ERDMP/DC/2014-15/C-01 dated 5<sup>th</sup> April-2014. All approvals as necessary were obtained before the commissioning of the project. Terminal was commissioned on 20<sup>th</sup> August-2013 and all activities related to commissioning were completed by 10<sup>th</sup> September 2013.</p>
23	General	<p>Minor oil spills are likely to be caused due to ship movement in the port. Engine room waste, oil ballast and tank wash water have to be discharged to the shore reception for treatment by port authorities or by certified contractors. In case of major oil spills due to accidents. Petronet LNG Limited should interact with Kochi Port to ensure full</p>	<p>PLL jetty falls under the Cochin Port Trust (CPT), and the Oil Spill Contingency Management Plan is prepared by CPT. PLL has provided the information required from the terminal to be incorporated in the Oil Spill Contingency Management Plan. Coast guard is also part of the Oil spill contingency plan. Any kind of spillage incidents will be handled by Cochin Port Trust. We have already submitted details regarding the</p>

		preparedness to undertake all combat operations.	same with six monthly compliance report dated 05 <sup>th</sup> April-2013.
24	General	Control room/tower should be equipped with modern communication and control device to act instantaneously if spill/leakage occurs. At the jetty, loading arm should be equipped with latest Emergency Release Systems (ERS) and monitoring device for LNG services. Articulated cargo transfer arm should be used at the unloading jetty. It shall be ensured that LPG and LNG tankers are scheduled properly to avoid bunching and also that LPG will not be unloaded from the ship when the LNG tanker is at berth.	Control room is equipped with modern communication and control facilities including emergency shut-down systems in the event of spill occurring. Loading arms are equipped with latest Emergency Release System (ERS).  We do not handle LPG at our jetty.
25	General	Dry chemical firefighting extinguishers should be provided at all levels of the jetty to permit personnel to fight small fires. Water spray for dispersing un-ignited vapour clouds should be kept as standby. Full- fledged firefighting facilities should be provided at jetty.	<ul style="list-style-type: none"> <li>• Full-fledged firefighting facilities are provided in the jetty to handle any fire emergencies.</li> <li>• Fixed DCP fire extinguishing system &amp; DCP extinguishers are provided at jetty. Water curtain system is also provided at required locations. Brief note on Fire protection facilities have already been submitted with six monthly compliance report dated 30<sup>th</sup> September-2013.</li> </ul>



26	General	<p>A well-equipped laboratory with suitable instruments to monitor the quality of air and water shall be set up as to ensure that the quality of ambient air and water conforms to the prescribed standards. The laboratory will also be equipped with qualified manpower including a marine biologist so that the marine water quality is regularly monitored in order to ensure that the marine life is not adversely affected as a result of implementation of the said project. The quality of ambient air and water shall be monitored periodically in all the seasons and the results should be properly maintained for inspection of the concerned pollution control agencies. The periodic monitoring reports at least once in 6 months must be sent to this Ministry (Regional Office at Bangalore) and State Pollution Control Board.</p>	<p>A well-equipped laboratory with suitable Equipment's for monitoring the quality of water is in place, with Qualified and competent employees. However, PLL is carrying out periodic monitoring of environmental parameters by a KSPCB approved third party agency.</p> <p>24 hrs ambient air quality monitoring is being carried out once in a month at four different locations inside the terminal and analysis reports for the month of October 2021 to March 2022 are enclosed here as <b>Annexure#6</b>.</p> <p>PLL is conducting marine water quality analysis once in six month. The latest test report of December 2021 is enclosed here as <b>Annexure#4</b>.</p>
27	General	<p>Adequate provisions for infrastructure facilities such as water supply, fuel for cooking, sanitation, etc. must be provided for the laborers during the construction period in order to avoid damage to the environment, Colonies for the laborers should not be located in the Coastal Regulation Zone area. It should also be fuel wood purpose.</p>	<p>During the construction phase, PLL has provided adequate infrastructure facilities such as water supply, fuel for cooking, sanitation, etc. to the labourers. Labour colonies were not located in Costal Regulation Zone area.</p>
28	General	<p>To prevent discharge of sewage and other liquid wastes into the water bodies, adequate system for collection and treatment of the wastes must be provided. No sewage and other liquid wastes without treatment should be allowed to enter into the water bodies.</p>	<p>Individual Septic tanks with soak pits have provided for collection of sewages from plant buildings. The sludges from septic tanks are being collected and disposed regularly through the authorized agency of Cochin corporation. A STP of capacity 15KLD is also installed to handle domestic sewages. Treated water from STP has</p>

			been used for gardening purpose and sludge is being used as manure. No sewage or waste from PLL are allowed to enter into water bodies.
29	General	Appropriate facility should be created for the collection of solid and liquid wastes generated by the barges/vessels and their safe treatment and disposal should be ensured to avoid possible contamination of the water bodies	Vessels and tugs dispose their garbage as per the guidelines of Annex V of Marpol (IMO). We have already submitted the related details with six monthly compliance report dated 05 <sup>th</sup> April-2013.
30	General	Necessary navigational aids such as channel markers should be provided to prevent accidents. internationally recognized safety standards shall be applied in case of barge/vessel movements	All the navigation related requirements are maintained by Cochin Port Trust.
31	General	The project authorities should take appropriate community development and welfare measures for villagers in the vicinity of the project site, including drinking water facilities. A separate fund should be allocated for this purpose.	CSR projects are being undertaken by PLL for community development and welfare. A brief description about the CSR activities carried out by PLL for FY 2021-22 is enclosed here with the photographs as <b>Annexure #7</b> . Petronet had spent a total amount of Rs. 18,39,26,279/- (Rupees Eighteen Crore Thirty-Nine Lakhs Twenty six Thousand Two Hundred & Seventy-Nine only) for CSR projects till date, out of which Rs. 3,95,48,144/- (Rupees Three Crore Ninety Five lakh Forty Eight thousand One hundred & Forty four only) had spent in the FY 2021-22. Detailed expense report is attached here as <b>Annexure #8</b> .
32	General	The quarrying material required for the construction purpose shall be obtained only from the approved quarries/borrow areas. Adequate safeguard measures shall be taken to ensure that the overburden and rocks at the quarry site do not find their way into water bodies.	Quarrying material was sourced from Government approved quarries. We have already submitted the details regarding the same with six monthly compliance reports dated on 05 <sup>th</sup> April-2013.

33	General	The dredging operations to be undertaken with the prior approval of this Ministry, shall be executed with appropriate safeguard measures to prevent turbidity conditions in consultation with the expert agencies such CWPRS/NIO.	PLL has obtained Environmental clearance from the MOEF vide their order No. J-16011/26/2001-IA-III dated 16 <sup>th</sup> November-2010 for undertaking dredging operations of the basin. Dredging operation is completed and maintenance dredging is being carried out regularly by Cochin Port Trust by Trailer Suction Hopper Dredger (TSHD) & PLL by Cutter Suction Dredger (CSD), ensuring all safeguard measures.
34	General	For employing unskilled, semi-skilled and skilled workers for the project, preference shall be given to local people.	During the project, PLL had given preference to locals while employing unskilled, semi-skilled and skilled worker wherever possible based on their qualification and merits.
35	General	The recommendations made in the Environment Management Plan and Disaster Management Plan, as contained in the Environmental Impact Assessment and Risk Analysis Reports of the project shall be effectively implemented.	All recommendations made in Environment Management Plan and Disaster Management Plan, as contained in Environment Impact Assessment and Risk Analysis Report of the project are effectively implemented.
36	General	A separate Environment Management Cell with suitably qualified staff to carry out various environment issues should be set up under the charge of a Senior Executive who will report directly to the Chief Executive of the Company.	PLL has set up an Environment Management Cell (EMC) under Chief General Manager & Vice President (Plant Head). Other members of the team include Head of; maintenance dept, Operations department, C&P (Contracts & Procurement) department, technical department, HSE department, Civil Department, Lab operation & a representative from HR department for effectively implementing the stipulated environment safeguards.
37	General	The project affected people, if any should be properly compensated and rehabilitated.	No people affected directly as the project was on uninhabited land. Some Land was acquired by Cochin Port Trust for constructing new access road for the project and those affected were provided with infrastructure like road, drain, electricity and water as per guideline by authorities.

38	General	The funds earmarked for environment protection measures should be maintained in a separate account and there should be no diversion of these funds for any other purpose. A year wise expenditure on environmental safeguards should be reported to this Ministry.	The fund earmarked for environment protection measures is included in the budget and will not be diverted for other purposes. Environment expenses for FY 2021-22 is enclosed here as <b>#Annexure 03</b> .
39	General	Full support should be extended to the officers of this Ministry's Regional Office at Bangalore and the officers of the Central and State Pollution Control Boards by the project proponents during their inspection for monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.	PLL will extend full support to the officers of this ministry's Regional Office, Bengaluru and the officers of the Central and State Pollution Control Board during the inspection for monitoring purpose by furnishing full details of analysis reports and action plans for environmental protection
40	General	In case of deviation or alteration in the project including the implementing agency, a fresh reference should be made to this Ministry for modification in the clearance conditions or imposition of new ones for ensuring environmental protection. The project proponents should be responsible for implementing the suggested safeguard measures.	PLL has not carried out any deviation or alteration in the project.  PLL will comply with this requirement and will take permit from the Ministry prior to any deviation, alteration and modification in the project.
41	General	This Ministry reserves the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of this Ministry.	Noted. PLL will abide by all Environment clearance conditions.
42	General	This Ministry or any other competent authority may stipulate any additional conditions subsequently, if deemed necessary for environmental protection, which shall be complied with.	PLL will comply with additional conditions, if any suggested by the ministry or any other competent authority in writing.

43	General	The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Committee and may also be seen at Website of the Ministry of Environment & Forests at <a href="http://www.envfor.in">http://www.envfor.in</a> . The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Bangalore.	Noted. PLL had advertised regarding environmental clearance accorded by the Ministry of Environment & Forest in two local newspapers widely circulated in the region around the project. Copy of the advertisement given in the two local newspapers has already been submitted along with the six-monthly compliance report dated 30 <sup>th</sup> September-2013.
44	General	The Project proponents should inform the Regional Office as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of Land Development Work.	Site appraisal clearance obtained on 28th Feb 2011. PLL had already informed the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project vide letter dated 5th Sept-2008, from Director (Technical) addressed to Additional Director, MoEF&CC, Delhi and copy marked to MoEF&CC regional office.

Thanking You,

With Regards



*Reddy*

**Yogananda Reddy**

Chief General Manager & Vice President (Plant Head)

Annexure-1

Conditions mentioned in the Letter No. 4215/B1/2000/STED, dated 9<sup>th</sup> February-2001 does not specifies any conditions for compliance.

Conditions mentioned in the Letter No. 1143/A2/2005/STED dated 14<sup>th</sup> October-2005 from Kerala coastal Zone Management Authority and PLL compliance remarks are as under:

Sr. No.	Conditions mentioned	PLL Compliance remarks
1.	No activities will be undertaken in the Mangrove area or in the buffer zone of the mangrove. The route of the pipeline and other activities shall have minimum of 50M from the nearby mangroves and forest land if any in the CRZ area.	PLL's plot is not in the mangrove area, it is about 100 m away from the buffer zone. All activities including the laying of pipelines are confined within the PLL's plot.
2.	Expansion of existing service road in the Costal Regulation Zone-I shall not be carried out.	Existing service road in the Costal Regulation Zone-I belongs to Panchayat and PLL will not do any expansion of this service road.
3.	No groundwater shall be tapped for the project.	PLL will not tap any ground water during operation of the terminal as water requirement will be met by local purchase. During construction stage, requirement of water was met by outsourcing.
4.	The proponent shall obtain necessary No Objection Certificate (NOC) from Kerala State Pollution Control Board.	PLL has obtained required NOC from Kerala State Pollution Control Board in 1999 vide NOC No. <b>PCB/NOC/EK/117/98 dated 17<sup>th</sup> September-1999.</b> We have obtained a Consent to Operate with no. <b>PCB/HO/EKM-1/ICO-R/18/ 2018 dated 10<sup>th</sup> October 2018, and is valid up to on 31<sup>st</sup> March 2023, a copy of the same has already been submitted along with the compliance report dated March-2019.</b>
5.	EIA document including risk analysis and disaster management plan should be submitted directly to MoEF&CC for environment clearance, under intimation to this office.	Comprehensive EIA for 2.5 MMTPA Terminal capacity was submitted at MoEF&CC on 16 <sup>th</sup> February-2001. EIA, QRA and Site emergency response plan for 5 MMTPA terminal capacity were submitted at MoEF&CC 22 <sup>nd</sup> September-2011.

## Annexure 2

Conditions mentioned by KSPCB in the CTE No. PCB/NOC/EK/117/98 dated 17.9.99 are and PLL compliance remarks are as under:

Sl. No	Conditions mentioned	PLL Compliance remarks
1	The applicant shall comply with the instructions that the Board may issue from time to time regarding prevention and control of air, water, land and sound pollution.	PLL will comply with any such instructions from the Board regarding prevention and control of air, water, land and sound pollution.
2	The effluent treatment facilities proposed namely sewage treatment plant/septic tank, oil traps, hot water-cooling facilities etc. shall be provided before commissioning the industry. Additional facilities required, if any to achieve the effluent standards laid down by the Board under section 17(1) (g) of Water (Prevention and Control of Pollution) Act'1974 shall also be made along with.	PLL is generating only sewage waste and is being handled through septic tank and soak pit in individual building and a STP of capacity 15KLD. Details of STP were submitted to KSPCB.  PLL will comply with the effluent standard as per Water Act and if additional facilities are required, then PLL will provide those facilities for treatment of effluent.
3	Air pollution control devices required shall be installed before commissioning the industry for controlling air pollution. Minimum stack/chimney height shall be as detailed below:  69.0 m above ground level for flare stack and 5.5 meter above the roof level of Generator room for the Gensets of capacity 750 KVA.	PLL is using Natural Gas as fuel for GTGs. GTGs are inbuilt with DLE burner (Dry low emission, Low NOx burners) and CEMS (Continuous Emission monitoring System). Stacks of height as required by statues were installed for GTG, EDG & Fire water pumps.  PLL had received a letter from KSPCB dated 18-10-2010 regarding change in this condition, wherein the flare stack height reduced from 69.0 m to 43.2 m, a copy of this letter had already been submitted with six monthly reports dated 30 <sup>th</sup> September-2013. PLL has provided the stack discharge at 3.5 meter above the roof level for Emergency Diesel Generator room.
4	For bringing into use any outlet to discharge and for the discharge of sewage/trade effluent, the applicant shall obtain consent to discharge from the Board under the Water (Prevention and Control of Pollution) Act'1974 before commissioning the industry.	PLL is generating only sewage waste and is being handled through individual building's septic tank, soak pit and STP. PLL has obtained Consent to Operate with <b>No. PCB/HO/EKM-1/ICO-R/18/ 2018 dated 10<sup>th</sup> October 2018, and was valid up to on 31<sup>st</sup> March 2023</b> , a copy of the same has already been submitted along with compliance report dated March-2019.

5	The applicant shall obtain the "Consent to Operate" from the Board under the Air (Prevention and Control of Pollution) Act'1981 before commissioning the industry.	PLL has obtained Consent to Operate with <b>No. PCB/HO/EKM-1/ICO-R/18/ 2018 dated 10<sup>th</sup> October 2018, and was valid up to on 31<sup>st</sup> March 2023</b> , a copy of the same has already been submitted along with compliance report dated March-2019.
6	The sign board showing the name of the industry shall be displayed at the entrance of the site.	PLL has displayed the sign board showing name of the industry at the entrance of the site.
7	Suitable species of trees shall be planted and maintained within and along the periphery of the factory premises, forming a green belt to improve the environment.	Green Belt area has been developed along the periphery of the factory premises with trees like Gul mohar, Amaltas, Neem, fig, mango etc.
8	The date of commissioning of the industry shall be intimated to the Head Office and Regional office concerned of the Board at least one month in advance.	PLL had informed the date of commissioning of the industry vide letter no PLL/KOCHI/KSPCB/2013-14/C-06 dated 07 <sup>th</sup> August-2013, A copy of this letter has already been submitted with six monthly reports dated 30 <sup>th</sup> September-2013.
9	There shall not be any fugitive emission from the plant/premises.	There is no fugitive emission from the plant/premises.
10	The location of the industry shall be as shown in the drawing attached. No change or alteration to the above shall be made.	There is no change made in the location of the industry, Location of the industry is as per the drawing.
11	The temperature difference between cooling water discharged and the receiving water body (sea water) temperature shall not be more than 50C and monitoring arrangements for the same shall be provided.	PLL is not discharging cooling water into sea or any other water body.
12	The ambient sound level measured at a distance of 1 m away from the boundary shall not exceed 65 dB (A) during daytime and 55 dB (A) during night time.	Ambient sound levels measured at a distance of 1 m away from the boundary walls are well within the limits. Ambient sound level monitoring is being carried out every quarter by a KSPCB approved agency and the monitoring reports for March 2022 is attached as <b>Annexure#09</b> .
13	Consent to establish shall be obtained prior to setting up of captive power plant in futures.	A Consent to Establish was already obtained by PLL prior to setting up of captive power plant.



## ENVIRONMENT BUDGET - FY 2021-22

Sl. No	Item	Amount (RS.)	Remark
1	Environment Monitoring charges	229146	
2	Consent fees to Pollution Control board	5,25,000	
3	Kitchen garden maintenance charges	10000	
4	Horticulture and green Belt development &	6721666	
5	CSR expenditure for FY 2021-22	3,95,48,144	
6	World Environment Day Celebration	1,00,000	
7	IMS Annual surveillance audit (ISO14001)	50,000	
8	Hazardous waste disposal charges	100000	
9	Maintenance charges for CAAQMS (Continuous Ambient Air Quality Monitoring Station)	250160	
10	Maintenance charges for Environment statistics LED display	191000	
12	STP Maintenance charges	632756	
<b>Total ( Four Crore Eighty Three Lakhs Fifty Seven Thousand Eight hundred &amp; Seventy Two only)</b>		<b>48357872</b>	

## TEST REPORT


<b>ULR No: TC540221000006580F</b>		
LRI No: SEAAL21120323A	Date: 13-12-2021	Page 1 of 2

CUSTOMER DETAILS	
Customer Name & Address	M/s Petronet LNG Limited Survey No.347, Puthuvypu P.O Kochi , Ernakulam District
Customer Reference	Test Request dt 06-12-2021

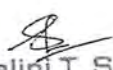
SAMPLE DETAILS			
Product Category	Water	Sample Code	WT21120013
Sample Name	Marine water	Sample Received on	07-12-2021
Sample Conditions at Receipt	Fit for Analysis	Temperature @ Receipt	4 °C
Sample Quantity & Packing	5 litre & 100ml Plastic Bottle	Test Commenced on	08-12-2021
Sampled by	Lab Authorized Sampler	Test Completed on	13-12-2021
Information Provided by Customer	---		


DETAILS OF SAMPLING			
Sample Source	Jetty Area (Sea)	Date of Sampling	06-12-2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/01& SEAAL/MBL/SOP/06	Sample Temperature	32 °C

TEST RESULTS - CHEMICAL PARAMETERS				
Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT
1	Temperature	IS 3025 Part 9:1984 RA 2006	°C	31.3
2	Colour	IS 3025 Part 4:1983 RA 2017	Hazen	1.00
3	pH	IS 3025 Part 11:1983 RA 2017	---	7.62
4	Electrical Conductivity	IS 3025 Part 14:1984 RA 2019	µS/cm	47110
5	Total Dissolved Solids	IS 3025 Part 16:1984 RA 2017	mg/L	30610
6	Turbidity	IS 3025 Part 10:1984 RA 2017	NTU	3.80
7	Chloride (as Cl)	IS 3025 Part 32:1988 RA 2019	mg/L	13692
8	Salinity	SEAAL/SOP/06	ppt	34.2
9	Sulphate (as SO <sub>4</sub> )	IS 3025 Part 24:1986 RA 2019	mg/L	1148
10	Iron (as Fe)	IS 3025 Part 53:2003 RA 2019	mg/L	0.94

  
**Shency Joy**  
 Dy. TM Chemical  
 Checked by:



  
**Salini T. S.**  
 Microbiologist  
 Authorized Signatory

  
**Laiju P. N.**  
 Laboratory Head  
 Authorized Signatory

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 vide Certificate No. TC - 5402 & "A" Grade Laboratory approved by KSPCB.

K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43  
 Web: www.sealabs.in, E-mail: seaalab@gmail.com

**TEST REPORT**


ULR No: TC54022100006580F		
LRI No: SEAL21120323A	Date: 13-12-2021	Page 2 of 2

TEST RESULTS - CHEMICAL PARAMETERS				
Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT
11	Mercury (as Hg)	APHA (23rd Edition) 3112-B: 2017	mg/L	<0.002
12	Lead (as Pb)	APHA (23rd Edition) 3111-B: 2017	mg/L	0.80
13	Copper (as Cu)	IS 3025 Part 42:1992 RA 2019	mg/L	0.08
14	Zinc (as Zn)	APHA 3111B 23rd Edn, 2017	mg/L	0.09
15	Nickel (as Ni)	IS 3025 Part 54: 2003 RA 2019	mg/L	1.03
16	Cadmium (as Cd)	IS 3025 Part 41: 1992 RA 2019	mg/L	0.07
17	Cyanide (as CN)	IS 3025 Part 27:1986 RA 2019	mg/L	<0.01
18	Fluoride(as F)	APHA 23rd Edition 4500-F- B D: 2017	mg/L	0.79
19	Arsenic (as As)	IS 3025 Part 37: 1988 RA 2019	mg/L	<0.002
20	Hexavalent Chromium (as Cr <sup>3+</sup> )	IS 3025 Part 52:2003 RA 2019	mg/L	<0.20
21	Pesticide	USEPA 508 : 1995	---	Absent
22	Oil & Grease	IS 3025 Part 39:1991 RA 2019	mg/L	<1.00
23	Dissolved Oxygen	IS 3025 Part 38:1989 RA 2019	mg/L	7.30
24	Biochemical Oxygen Demand (3 days at 27 °C)	IS 3025 Part 44:1993 RA 2019	mg/L	<2.00
25	Chemical Oxygen Demand	IS 3025 Part 58:2006 RA 2017	mg/L	2714
26	Total Suspended Solids	IS 3025 Part 17:1984 RA 2017	mg/L	4.20


TEST RESULTS - BIOLOGICAL PARAMETERS				
Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT
1	Total Bacterial Count	IS 1622:1981 RA 2014	cfu/mL	9400
2	Faecal Coliform	IS 1622:1981 RA 2014	MPN/100ml	40
3	E coli	IS 1622:1981 RA 2014	MPN/100ml	40

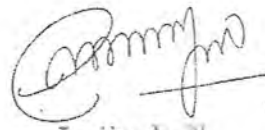
Remarks:

\*\*\*End of Report\*\*\*

  
**Shency Joy**  
Dy. TM Chemical  
Checked by:



  
**Salini T. S.**  
Microbiologist  
Authorized Signatory

  
**Laiju P. N.**  
Laboratory Head  
Authorized Signatory

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Web: www.sealabs.in, E-mail: seaalab@gmail.com

## TEST REPORT


Test Report No: SEAL21120323N		Date: 13-12-2021	Page 1 of 1	
CUSTOMER DETAILS				
Customer Name & Address	M/s Petronet LNG Limited Survey No.347, Puthuvypu P.O Kochi , Ernakulam District			
Customer Reference	Test Request dt 06-12-2021			
SAMPLE DETAILS				
Product Category	Water	Sample Code	WT21120013	
Sample Name	Marine water	Sample Received on	07-12-2021	
Sample Conditions at Receipt	Fit for Analysis	Temperature @ Receipt	4 °C	
Sample Quantity & Packing	2 litre & 100ml Plastic Bottle	Test Commenced on	08-12-2021	
Sampled by	Lab Authorized Sampler	Test Completed on	13-12-2021	
Information Provided by Customer	---			
DETAILS OF SAMPLING				
Sample Source	Jetty Area (Sea)	Date of Sampling	06-12-2021	
Sampling Procedure	SEAL/ENL/GEN/SOP/01	Sample Temperature	32 °C	
TEST RESULTS - CHEMICAL PARAMETERS				
Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT
1	Insecticide	USEPA 508 : 1995	---	Absent

Remarks:

\*\*\*End of Report\*\*\*

  
Shency Joy  
Dy. TM Chemical  
Checked by:



  
Laiju P. N.  
Laboratory Head  
Authorized Signatory

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Web: www.sealabs.in, E-mail: seaalab@gmail.com

## TEST REPORT


<b>ULR No: TC540221000006579F</b>		
LRI No: SEAL21120322A	Date: 13-12-2021	Page 1 of 2

CUSTOMER DETAILS	
Customer Name & Address	<b>M/s Petronet LNG Limited</b> Survey No.347, Puthuvypu P.O Kochi , Ernakulam District
Customer Reference	Test Request dt 06-12-2021


SAMPLE DETAILS			
Product Category	Water	Sample Code	WT21120012
Sample Name	Ground Water	Sample Received on	07-12-2021
Sample Conditions at Receipt	Fit for Analysis	Temperature @ Receipt	4 °C
Sample Quantity & Packing	5 litre & 100ml Plastic Bottle	Test Commenced on	08-12-2021
Sampled by	Lab Authorized Sampler	Test Completed on	13-12-2021
Information Provided by Customer	---		

DETAILS OF SAMPLING			
Sample Source	Piezometer Pump	Date of Sampling	06-12-2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/01& SEAAL/MBL/SOP/06	Sample Temperature	32 °C

TEST RESULTS - CHEMICAL PARAMETERS				
Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT
1	pH	IS 3025 Part 11:1983 RA 2017	---	7.17
2	Total Dissolved Solids	IS 3025 Part 16:1984 RA 2017	mg/L	156
3	Turbidity	IS 3025 Part 10: 1984 RA 2017	NTU	2.20
4	Chloride (as Cl)	IS 3025 Part 32:1988 RA 2014	mg/L	5.03
5	Iron (as Fe)	IS 3025 Part 53:2003 RA 2014	mg/L	0.29
6	Fluoride(as F)	APHA 23 <sup>rd</sup> Edition 4500-F- B D: 2017	mg/L	0.21
7	Sulphate (as SO <sub>4</sub> )	IS 3025 Part 24:1986 RA 2014	mg/L	9.51
8	Electrical Conductivity	IS 3025 Part 14:1984 RA 2013	µS/cm	390
9	Mercury (as Hg)	APHA (23 <sup>rd</sup> Edition)3112-B: 2017	mg/L	< 0.002
10	Lead (as Pb)	APHA (23 <sup>rd</sup> Edition)3111-B: 2017	mg/L	<0.20

  
**Shency Joy**  
 Dy. TM Chemical  
 Checked by:



  
**Laiju P. N.**  
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**TEST REPORT**

<b>ULR No: TC540221000006579F</b>		
LRI No:SEAAL21120322A	Date: 13-12-2021	Page 2 of 2


TEST RESULTS - CHEMICAL PARAMETERS				
Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT
11	Copper (as Cu)	IS 3025 Part 42:1992 RA 2014	mg/L	<0.05
12	Total Chromium (as Cr)	IS 3025(Part 52):2003	mg/L	<0.40
13	Zinc (as Zn)	APHA 3111B 23rd Edn, 2017	mg/L	0.03
14	Temperature	IS 3025 Part 9:1984 RA 2006	°C	31.7
15	Salinity	SEAAL/SOP/06	---	0.208
16	Oil & Grease	IS 3025 Part 39:1991 RA 2014	mg/L	<1.00
17	Dissolved Oxygen	IS 3025 Part 38:1989 RA 2014	mg/L	4.80
18	Biochemical Oxygen Demand (3 days at 27 °C)	IS 3025 Part 44:1993 RA 2014	mg/L	<2.00
19	Chemical Oxygen Demand	IS 3025 Part 58:2006 RA 2012	mg/L	120
20	Cyanide (as CN)	IS 3025 (Part-27):1986 (Reaff.2003)	mg/L	< 0.01
21	Cadmium (as Cd)	APHA (23 <sup>rd</sup> Edition) 3111-B: 2017	mg/L	< 0.03
22	Pesticide	SEAAL/INS/RWM/SOP/01	---	Absent

Note: Values given for test parameters Mercury, Lead, Copper, Chromium, Cyanide and Cadmium are our MDL values (Minimum Detectable Values) as per NABL scope.

\*\*\*End of Report\*\*\*

  
**Shency Joy**  
Dy. TM Chemical  
Checked by:



  
**Laiju P. N.**  
Laboratory Head  
Authorized Signatory

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## TEST REPORT

Test Report No: SEAAL21120322N	Date: 13-12-2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	M/s Petronet LNG Limited Survey No.347, Puthuvypu P.O Kochi , Ernakulam District
Customer Reference	Test Request dt 06-12-2021

SAMPLE DETAILS			
Product Category	Water	Sample Code	WT21120012
Sample Name	Ground Water	Sample Received on	07-12-2021
Sample Conditions at Receipt	Fit for Analysis	Temperature @ Receipt	4 °C
Sample Quantity & Packing	2 litre & 100ml Plastic Bottle	Test Commenced on	08-12-2021
Sampled by	Lab Authorized Sampler	Test Completed on	13-12-2021
Information Provided by Customer	---		


DETAILS OF SAMPLING			
Sample Source	Piezometer Pump	Date of Sampling	06-12-2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/01	Sample Temperature	32 °C

TEST RESULTS - CHEMICAL PARAMETERS				
Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT
1	Insecticide	USEPA 508 : 1995	---	Absent

\*\*\*End of Report\*\*\*

  
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 Web: www.sealabs.in, E-mail: sealab@gmail.com

Ambient Air Monitoring Report, (October 2021 to March 2022)

LOCATION NO.	Location of Ambient Air Sampling	Month	PM (<10 microns) in Micrograms/m <sup>3</sup> ; Limit 100 Micrograms/m <sup>3</sup>	PM (<2.5 microns) in Micrograms/m <sup>3</sup> ; Limit 60 Micrograms/m <sup>3</sup>	SOx as SO <sub>2</sub> in Micrograms/m <sup>3</sup> ; Limit 80 Micrograms/m <sup>3</sup>	NOx, Oxides of Nitrogen in Micrograms/m <sup>3</sup> ; Limit 80 Micrograms/m <sup>3</sup>	Carbon Monoxide (CO); mg/m <sup>3</sup> 4.0 mg/m <sup>3</sup>	OZONE Micrograms/m <sup>3</sup> ; Limit 180 Micrograms/m <sup>3</sup>	Hydrocarbons (HC); Micrograms/m <sup>3</sup> ;
1	(Watch Tower-2) near MGH building	October	62.6	20.8	0	0	0	0	0
		November	58.3	20.2	0	0	0	0	0
		December	62.3	22.9	0	0	0	0	0
		January	66.5	23.8	0	0	0	0	0
		February	61.1	28.2	0	0	0	0	0
		March	49.4	22.7	0	0	0	0	0
		Average	60.03	23.10	0.00	0.00	0.00	0.00	0.00
2	Near Fire Station Building	October	63.1	19.6	0	3.51	0	0	0
		November	60.5	19.1	0	3.87	0	0	0
		December	65.7	24.8	0	4.15	0	0	0
		January	70.5	26.4	0	3.98	0	0	0
		February	72.6	34.8	0	4.1	0	0	0
		March	60.2	29.8	0	3.6	0	0	0
		Average	65.43	25.75	0.00	3.87	0.00	0.00	0.00
3	Fire Water Reservoir+ Watch Tower-5	October	56.3	17.6	0	3.49	0	0	0
		November	50.2	17.1	0	3.19	0	0	0
		December	57.4	21.3	0	3.68	0	0	0
		January	58.9	22.5	0	3.72	0	0	0
		February	56.1	23.2	0	3.98	0	0	0
		March	46.5	20.8	0	3.1	0	0	0
		Average	54.23	20.42	0.00	3.53	0.00	0.00	0.00
4	Watch Tower-3 near Tank T-101	October	65.4	22.2	0	0	0	0	0
		November	59.7	20.4	0	0	0	0	0
		December	64.5	23.9	0	0	0	0	0
		January	60.2	23.4	0	0	0	0	0
		February	66.9	24.7	0	0	0	0	0
		March	40.6	26.9	0	0	0	0	0
		Average	59.55	23.58	0.00	0.00	0.00	0.00	0.00



# CSR Updates @Kochi



Anneexure-7

 | [www.petronetlng.in](http://www.petronetlng.in)

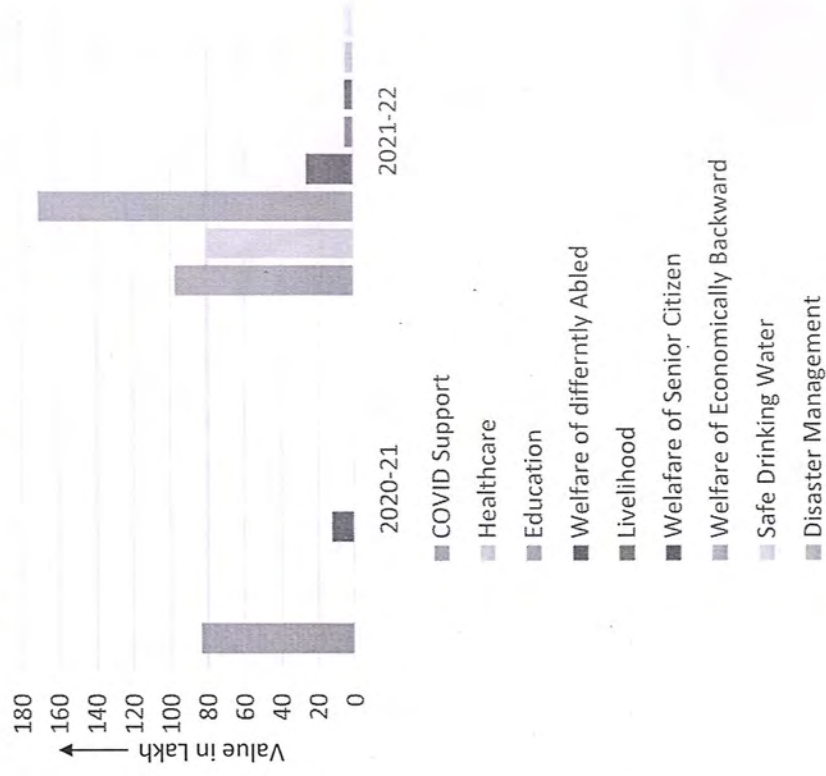


# Expenditure Data



Thematic Area	FY 2020-21 (in INR)	FY 2021-22 (in INR)
Health Care		
COVID Support	83,56,035.00	97,61,494.00
Other		80,79,508.00
Education		1,70,84,000.00
Welfare of differently abled People	12,40,000.00	26,14,173.00
Livelihood		5,00,000.00
Welfare of senior citizens		4,97,620.00
Welfare of Economically Backward		4,78,863.00
Safe drinking water facility		4,75,686.00
Disaster Management		20,500.00

CSR Expenditure FY 2020-21 Vs FY 2021-22



# COVID Support



PETRONET  
LNG  
LIMITED



## THE HINDU

### 4,013 new COVID-19 cases in Ernakulam

MOON, JANUARY 16, 2022 23:52 IST  
ERNAKULAM, JANUARY 16, 2022 23:52 IST

SPECIAL CORRESPONDENT

TPR is an alarming 40.7%

As many as 4,013 people tested positive for SARS-CoV-2 in Ernakulam district on Tuesday and the test positivity rate is an alarming 40.7%.

The district now has a total of 21,613 COVID-19 patients. On Tuesday, 2,468 patients tested negative, registering recovery. A fresh batch of 9,958 samples were sent for testing on Tuesday.

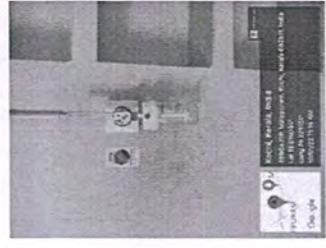
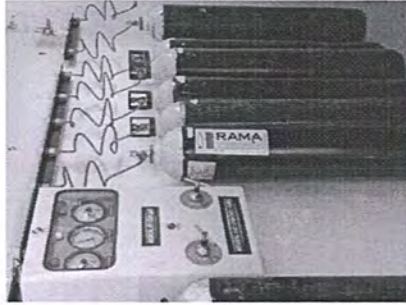
#### Aid for hospital

Meanwhile, Petronet LNG Ltd provided about 68.09 lakh from its corporate social responsibility fund towards setting up facilities for COVID-19 treatment at the Government General Hospital, Ernakulam.

The fund was used to buy multipara monitor, Bi level ventilator and humidifier required for 14 ICU beds, according to an official release.

The project was executed by the National Health Mission.

Source: <https://www.thehindu.com/news/national/kerala/4013-new-covid-19-cases-in-ernakulam/article63839531.html>

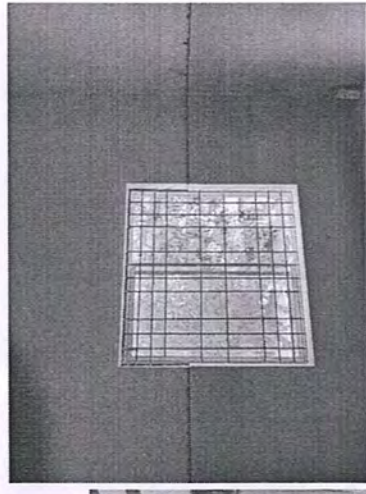
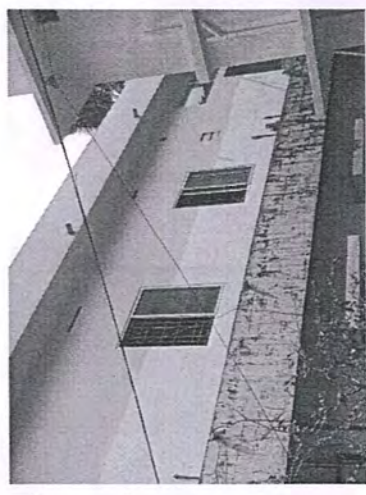


Medical Gas Pipeline Systems in association with National Health Mission, Ernakulam installed at THQH, Perumbavoor, THQH Paravar, TH Piravom and CHC Malipuram.



Support for Providing Free COVID Vaccine for BPL Card Holders in Puthuvype and Nearby Areas organized on 28.09.2021 and 29.09.2021 in association with IMA, Cochin.

# Healthcare

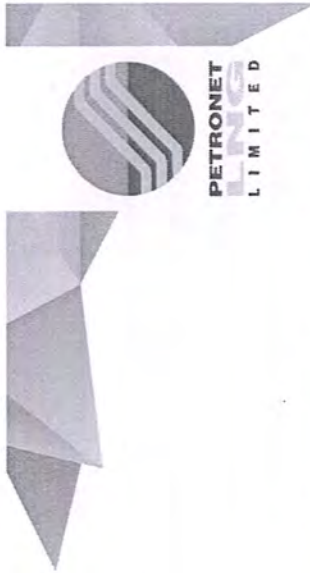


With support of PLL, Nayarambalam Grama Panchayat constructed new "Pay Ward Block" at Government Ayurveda Hospital, Nayarambalam to ensure effective and hygienic treatment for critically ill and bedridden patients.

Mobile Medical Van for Vypin area in association with M/s Wockhardt Foundation

# Education

## NAIPUYUM-Skill development program in association with CIPET



**രജ്യത്ത് കൂടുതൽ സിരക്സ് ഇൻസ്റ്റിറ്റ്യൂട്ടുകൾ തുടങ്ങും - കേന്ദ്ര മന്ത്രി ഭഗവന്തർ**

എല്ലാ രാജ്യത്ത് കൂടുതൽ സിരക്സ് ഇൻസ്റ്റിറ്റ്യൂട്ടുകൾ തുടങ്ങും എന്ന് കേന്ദ്ര മന്ത്രി ഭഗവന്തർ വ്യക്തമാക്കി. ഇന്ത്യയിലെ 3000 പേർക്ക് സിരക്സ് ഇൻസ്റ്റിറ്റ്യൂട്ടുകൾ തുടങ്ങാൻ സാധിക്കുമെന്ന് കേന്ദ്ര മന്ത്രി ഭഗവന്തർ വ്യക്തമാക്കി. ഇന്ത്യയിലെ 3000 പേർക്ക് സിരക്സ് ഇൻസ്റ്റിറ്റ്യൂട്ടുകൾ തുടങ്ങാൻ സാധിക്കുമെന്ന് കേന്ദ്ര മന്ത്രി ഭഗവന്തർ വ്യക്തമാക്കി.

മോട്ടോർവെഹിക്കിൾ സിരക്സ് ഇൻസ്റ്റിറ്റ്യൂട്ടുകൾ തുടങ്ങാൻ സാധിക്കുമെന്ന് കേന്ദ്ര മന്ത്രി ഭഗവന്തർ വ്യക്തമാക്കി. ഇന്ത്യയിലെ 3000 പേർക്ക് സിരക്സ് ഇൻസ്റ്റിറ്റ്യൂട്ടുകൾ തുടങ്ങാൻ സാധിക്കുമെന്ന് കേന്ദ്ര മന്ത്രി ഭഗവന്തർ വ്യക്തമാക്കി.



Valedictory function of 'Naipunyam' (2020-21) Vocational skill Development programme for underprivileged youth in Kerala was held on 12<sup>th</sup> October, 2021 in presence of Shri Bhagwant Khuba, Honorable Minister of State for Chemical and Fertilizer, Government Of India. Project is successfully completed with all time high placement of 99%.

Memorandum of Agreement signed between CIPET: Institute of Plastics Technology and Petronet LNG Limited (PLL) towards 'Naipunaym' (2021-22) Vocational Skill Development Programme. Candidate pooling and selection process carried out from 23<sup>rd</sup> March to 31<sup>st</sup> March 2020 by CIPET. 425 students shortlisted out of which 200 will be selected for the course.

# Education



Discussion with Sri. Jeeva Malar IAS (District Collector, Ernakulam), DOE, DEOs and other officials of Prathyusha Project.

Ernakulam District Administration  
 District Education Department  
 Enskool

**Ernakulam District Prathyusha NMMS 3rd Revision Test**

**Star Performers**

- HANA NIVAS
- ASHWINI MARIA
- JOSEPH ALVIN JOY
- ASHWINI
- ASHWINI
- ASHWINI
- ASHWINI
- ASHWINI

*Congratulations*

Ernakulam District Administration  
 District Education Department  
 Enskool

**Ernakulam District Prathyusha NMMS 2nd Revision Test**

**STAR PERFORMERS**

- DEVYAS A S
- ANISHA V
- ANISHA V
- ANISHA V
- ANISHA V
- ANISHA V
- ANISHA V
- ANISHA V

*Congratulations!*

Ernakulam District Administration  
 District Education Department  
 Enskool

**Ernakulam District Prathyusha NMMS 2nd Revision Test**

**Star Performers**

- ANISHA V
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- ANISHA V

*Congratulations*

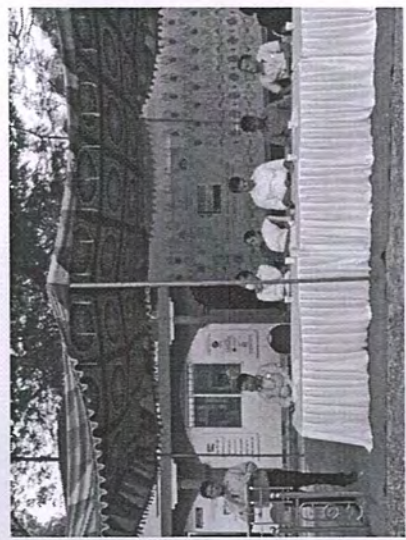
Ernakulam District Administration  
 District Education Department  
 Enskool



Support for providing Laboratory Equipment to 20 Government Higher Secondary Schools through District Panchayat, Ernakulam. Equipment related to Science, Mathematics and Social Science worth INR 25,000 were given to 20 Government school. Inauguration was held on 26-03-2022 in presence of Sri. Ullas Thomas (President, District Panchayat) and Smt. Shiny George (Vice President, District Panchayat).



# Welfare of Migrant Labour



**City hosts country's first migrant welfare office**  
 It will serve as single window facility for the large migrant community in district

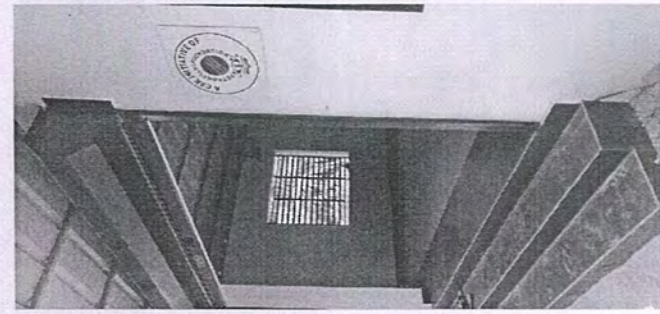
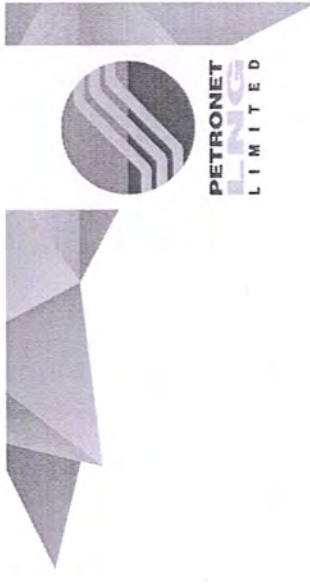
**Special concern**  
 Running around different offices for their various needs even the migrants and has been dated into the force concerned for addressing their needs and problems. The Minister directed the office to collect data of migrants and maintain a register. Special awareness campaign would be launched in the district to educate the workers and employers under the joint aegis of the Local Self Government and Labour Department. The project has been implemented after extensive groundwork, identifying the needs and problems of the migrant community. The office will serve as the link between the migrants and has been dated into the force concerned for addressing their needs and problems.

**Data collection**  
 The Minister directed the office to collect data of migrants and maintain a register. Special awareness campaign would be launched in the district to educate the workers and employers under the joint aegis of the Local Self Government and Labour Department. The project has been implemented after extensive groundwork, identifying the needs and problems of the migrant community. The office will serve as the link between the migrants and has been dated into the force concerned for addressing their needs and problems.

**Minister's visit**  
 The Minister visited the welfare office on Thursday, which was inaugurated by the Minister. The office will serve as the link between the migrants and has been dated into the force concerned for addressing their needs and problems.

**Support for setting up India's First Migrant Welfare Office named 'Aditi devo Bhava' at Civil Station, Ernakulam. This project was initiated by NHM for migrant workers of district in association with District Legal Service Society (DLSS) and District Administration to provide holistic welfare system to migrants by coordinating with respective departments. Inauguration was held on 31<sup>st</sup> March 2022 in presence of Shri K Rajan, Minister for Revenue and Land, Shri Jaffar Malik, District Collector of Ernakulam and other department officials.**

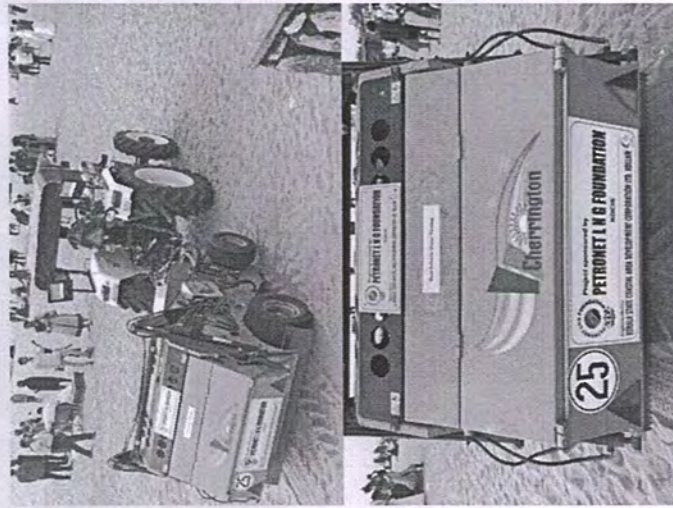
## Disaster Management



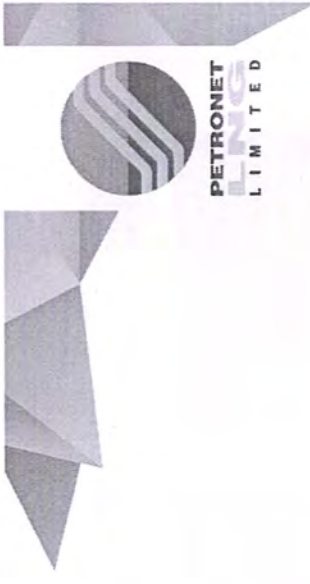
Completed project of 'Gandhi Smarak Grama Seva Kendram (GSGSK), Paravur'



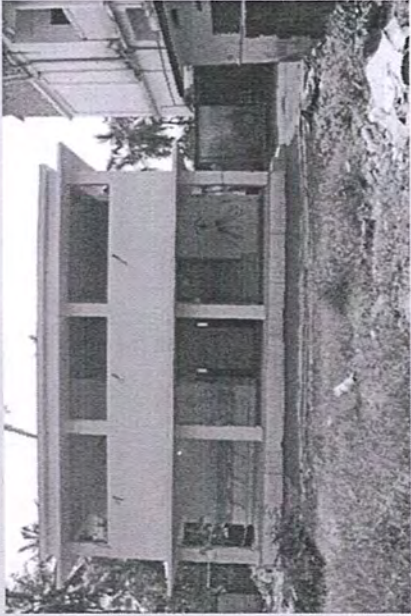
## Conservation of Natural Resources



Inauguration of Beach Cleaning Surf Rake at Kollam Beach in presence of Shri Mukesh (MLA, Kollam), Smt. Prasanna Ernest (Mayor, Kollam), Shri Yogananda Reddy (CGM & VP (Plant Head), PLL), Shri Sheikh Pareeth IAS (MD, KSCADC) held on 19- Dec-2021.



## Sanitation



Inauguration of Toilet complex at SDPY school, Edavanakad,  
Vypin held on 23-Dec-2021

## Environmental Sustainability

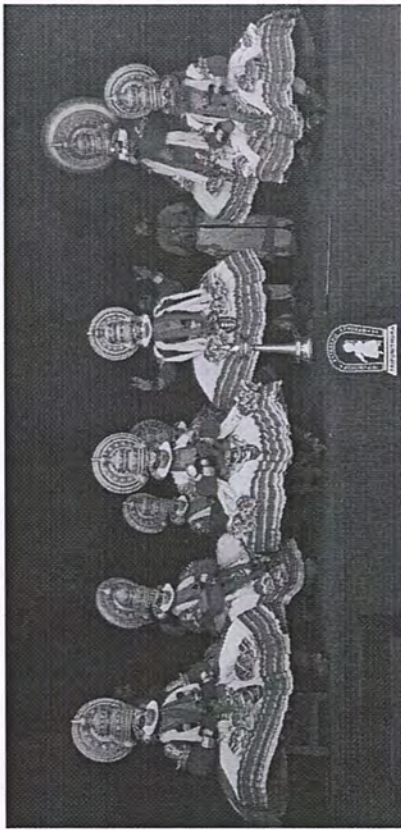
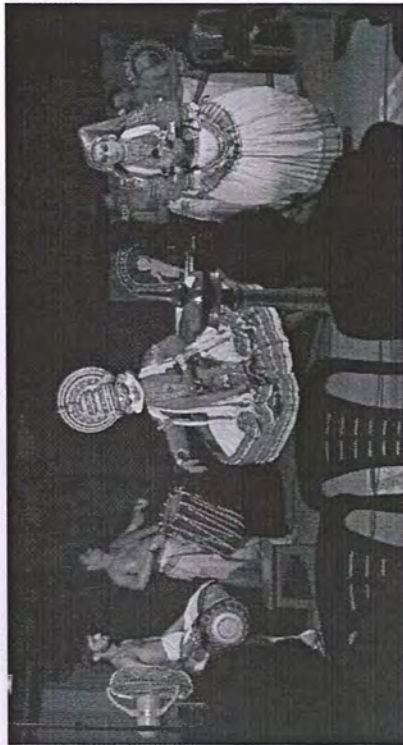


SOILLESS GARDEN at 3 MEDIANS OF KMRL

## Promotion of Arts

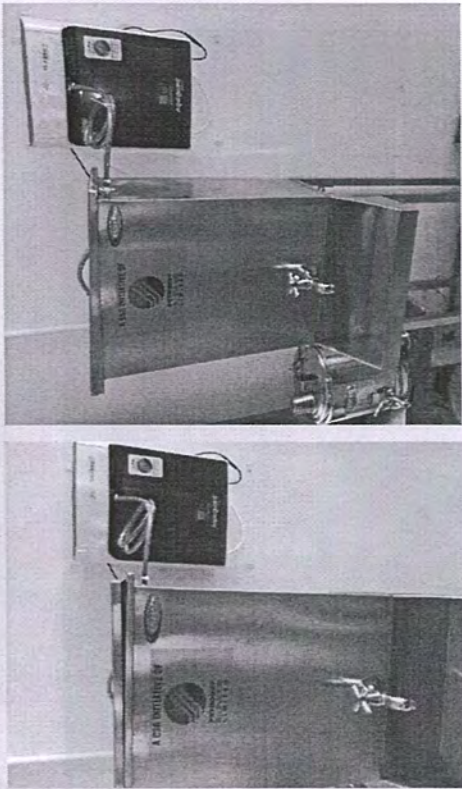


PETRONET  
LNG  
LIMITED



Lighting of lamp ceremony by CGM&VP(Plant Head)/Director(PLF) for final program of project "Promotion of Kathakali through Thripunithura Kathakali Kendram" in presence of Shri. K. Babu, MLA, Thripunithura

## Safe Drinking Water Facility

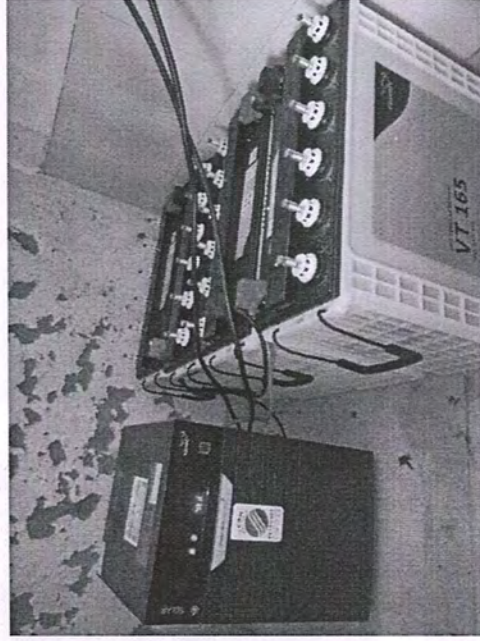


Support for installation of Safe Drinking Water Facility at 11 Government Schools Vypin area. This includes water purifier, steel tanks and AMC for three years after initial warrantee period.

## Welfare of Senior Citizens



PETRONET  
ENERGY  
LIMITED



Support for Government Old Age Home & Full-Time Dementia Center at Vypin by providing Inverter and Water Purifier. It is country's lone full-time dementia care center in the government sector with strength to accommodate 25 people. Current strength at home is 17 (14 dementia and 3 old age patients). Installation works for adult diaper incinerator is in progress.

T H A N K S

## Corporate Social Responsibility

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PETRONET  
LNG  
LIMITED

**“WE RISE BY LIFTING OTHERS”**

<b>CSR EXPENSES - Till March 2022</b>		
<b>Sl. No</b>	<b>FY</b>	<b>Total CSR Expenditure ( Lakhs)</b>
1	2013-14	2,54,57,793.00
2	2014-15	1,60,08,694.00
3	2015-16	2,23,01,262.00
4	2016-17	1,68,26,007.00
5	2017-18	78,24,860.00
6	2018-19	1,91,45,429.00
7	2019-20	1,53,44,487.00
8	2020-21	2,14,69,603.00
9	2021-22	3,95,48,144.00
	<b>TOTAL</b>	<b>18,39,26,279.00</b>

**CSR Expenditure - Petronet LNG Limited, Kochi Terminal (FY 2021-22)**

Sl.No	Project Details	Category	Project Location	Approved/ Committed (including taxes) in INR	Payment done (INR lakh)
1	Urgent Financial Support for Providing Free Covid Vaccine for BPL Card Holders in Puthuvype and Nearby Areas	Health Care	Puthuvype	5,24,790.00	5,24,790.00
2	Support for NMMS Scholarship Guidance Program for Beneficiaries in Ernakulam District, with focus on SC/ST and PWDs	Education	Ernakulam	3,86,000.00	3,86,000.00
3	Support for providing safe drinking water facility for Government schools in Vypin Area	Safe Drinking Water	Vypin	4,75,686.00	4,75,686.00
4	Support for providing Laboratory Equipment to 20 Government school in Ernakulam District	Education	Ernakulam	5,00,000.00	5,00,000.00
5	Support for Setting up India's First Migrant Welfare Office at Civil Station, Ernakulam.	Migrant Welfare	Ernakulam	4,78,863.00	4,70,166.05
6	Support towards Installation of Incinerator, Inverter and Water Purifier at Government Old Age Home & Full-Time Dementia Center, Edavanakkad, Vypin.	Welfare of Senior Citizen	Edavanakkad, Vypin	4,97,620.00	1,37,720.00
7	Support towards "Project Ganitham" - Mathematics guidance initiative aimed for 25000 high school students of Kerala.	Education	Kerala	2,98,000.00	Nil
8	Livelihood Project for Differently abled Students of Vypin through Kudumbashree Mission	Livelihood Project	Vypin	5,00,000.00	Nil
9	Support towards Civil Maintenance Works at Government Vocational Higher Secondary School, Odakkali.	Education	Odakkali	5,00,000.00	Nil
10	Support for Providing Portable Water Pump for Fire & Rescue Station, Vypin.	Disaster Management	Vypin	20,500.00	20,500.00
11	Elevator and Allied Works at 'Sukarma Vikas Kendra'- a project of SEVA BHARATHI (Location- Sukarma Vikas Kendra, Angamaly, Ernakulam)	Welfare of differently abled	Angamaly	26,14,173.00	6,80,454.00
12	Upgrading existing Emergency/Casualty Centre to Level - III Trauma Care in Indira Gandhi Co-Operative Hospital, Kadavanthara, Kochi	Health Care	Kadavanthara, Ernakulam	49,91,018.00	49,54,718.00
13	Naipunyam" - Skill Development Training Programme for 200 Youths	Education	Kerala	1,54,00,000.00	Nil
14	Installation of centralized oxygen supply system in 7 Government Healthcare Institutions in Ernakulam District	Health Care	N. Paravur, Perumbavoor, Malipuram and Piravom	45,11,494.00	26,12,523.00
15	Providing medical equipment for 14 ICU beds in Ernakulam General Hospital	Health Care	Ernakulam	52,50,000.00	47,90,790
16	Construction of New pay ward block for Government Ayurveda hospital, Nayarambalam	Health Care	Nayarambalam	26,00,000.00	24,04,895.00
<b>Total</b>				<b>3,95,48,144.00</b>	

Ambient Noise Monitoring Report, October 2021 to March 2022																					
Sr. No.	Average, Month	Oct-21			Nov-21			Dec-21			Jan-22			Feb-22			Mar-22				
		Day	Night		Day [dB(A)]	Night[dB(A)]		Day [dB(A)]	Night[dB(A)]		Day [dB(A)]	Night[dB(A)]		Day [dB(A)]	Night[dB(A)]		Day [dB(A)]	Night[dB(A)]			
	Location																				
	Limit, dB (A)	65.00	55.00		65.00	55.00		65.00	55.00		65.00	55.00		65.00	55.00		65.00	55.00		65.00	55.00
1	East side Gate Outside boundary wall	52.96	44.30		52.10	43.70		51.10	41.10		51.30	41.00		52.30	41.10		51.70	42.60			
2	North side Gate Outside boundary wall	51.90	43.90		51.50	42.80		51.50	40.30		50.70	40.20		51.40	40.90		52.20	40.70			
3	West side Gate Outside boundary wall	51.30	42.10		50.90	42.40		50.90	40.50		52.10	41.90		51.20	40.30		52.80	40.90			
4	South side Gate Outside boundary wall	53.50	42.80		52.80	43.10		50.70	40.20		51.70	41.40		50.90	41.20		51.30	42.10			
	<b>Avg (Year)</b>	<b>52.42</b>	<b>43.28</b>		<b>51.83</b>	<b>43.00</b>		<b>51.05</b>	<b>40.53</b>		<b>51.45</b>	<b>41.13</b>		<b>51.45</b>	<b>40.88</b>		<b>52.00</b>	<b>41.58</b>			